		Aeronautics Educate	or Guide					
1997 Mathematics								
Learning Standards								
Illinois Mathematics								
Grades K-3								
Activity/Lesson	State	Standards						
Air Engines (12-16)	IL	MA.K-3.7.A.1a	Measure length, volume and weight/mass using rulers, scales and other appropriate measuring instruments in the customary and metric systems.					
Rotor Motor (69-75)	IL	MA.K-3.10.B.1b	Collect, organize and describe data using pictures, tallies, tables, charts or bar graphs.					
Flight: Interdisciplinary Learning Activities (76- 79)	IL	MA.K-3.6.A.1a	Identify whole numbers and compare them using the symbols <, >, or = and the words "less than", "greater than", or "equal to", applying counting, grouping and place value concepts.					
Flight: Interdisciplinary Learning Activities (76- 79)	IL.	MA.K-3.10 B.1c	Analyze data, draw conclusions and communicate the results.					
Making Time Fly (80-			Collect, organize and describe data using					
86)	IL	MA.K-3.10.B.1b	pictures, tallies, tables, charts or bar graphs. Measure units of time using appropriate					
Plan to Fly There (97-106)	IL	MA.K-3.7.A.1b	instruments (e.g., calendars, clocks, watches—both analog and digital).					
We Can Fly, You and I: Interdisciplinary Learning (107-108)	IL	MA.K-3.7.A.1b	Measure units of time using appropriate instruments (e.g., calendars, clocks, watches—both analog and digital).					
Dunked Napkin (17-22)	IL	MA.K-3.10.A.1b	Answer questions and make predictions based on given data.					
Dunked Napkin (17- 22)	IL	MA.K-3.10.B.1c	Analyze data, draw conclusions and communicate the results.					
Paper Bag Mask (23- 28)	IL	MA.K-3.9.A.1b	Draw two-dimensional shapes.					
Paper Bag Mask (23- 28)	IL	MA.K-3.10.A.1b	Answer questions and make predictions based					
Wind in Your Socks) (29-35)	IL	MA.K-3.7.A.1a	Measure length, volume and weight/mass using rulers, scales and other appropriate measuring instruments in the customary and metric systems.					
Sled Kite (44-51)	IL	MA.K-3.7.A.1a	Measure length, volume and weight/mass using rulers, scales and other appropriate measuring instruments in the customary and metric systems.					
Right Flight (52-59)	IL	MA.K-3.10.A.1b	Answer questions and make predictions based on given data.					
Delta Wing Glider (60-68)	IL.	MA.K-3.10.A.1b	Answer questions and make predictions based					
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Aeronautics Educator Guide								
1997 Mathematics								
Learning Standards								

Illinois Mathematics			
Grades 4-5			
Activity/Lesson	State	Standards	
•			Calculate, compare and convert length,
			perimeter, area, weight/mass and volume within
Air Engines (12-16)	IL	MA.4-5.7.A.2a	the customary and metric systems.
			Organize and display data using pictures, tallies,
			tables, charts, bar graphs, line graphs, line plots
Rotor Motor (69-75)	IL	MA.4-5.10.A.2a	and stem-and-leaf graphs.
			Collect, organize and display data using tables,
			charts, bar graphs, line graphs, circle graphs,
Rotor Motor (69-75)	IL	MA.4-5.10.B.2b	line plots and stem-and-leaf graphs.
Flight: Interdisciplinary			Organize and display data using pictures, tallies,
Learning Activities (76-			tables, charts, bar graphs, line graphs, line plots
79)	IL	MA.4-5.10.A.2a	and stem-and-leaf graphs.
Flight: Interdisciplinary			Collect, organize and display data using tables,
Learning Activities (76-			charts, bar graphs, line graphs, circle graphs,
79)	IL	MA.4-5.10.B.2b	line plots and stem-and-leaf graphs.
			Collect, organize and display data using tables,
Making Time Fly (80-			charts, bar graphs, line graphs, circle graphs,
86)	IL	MA.4-5.10.B.2b	line plots and stem-and-leaf graphs.
Let's Build a Table Top			Build physical models of two- and three-
Airport (91-96)	IL	MA.4-5.9.A.2a	dimensional shapes.
Dunked Napkin (17-			Make predictions and decisions based on data
22)	IL	MA.4-5.10.A.2c	and communicate their reasoning.
			Collect, organize and display data using tables,
Dunked Napkin (17-			charts, bar graphs, line graphs, circle graphs,
22)	IL	MA.4-5.10.B.2b	line plots and stem-and-leaf graphs.
Dunked Napkin (17-	l		Interpret results or make relevant decisions
22)	IL	MA.4-5.10.B.2d	based on the data gathered.
Paper Bag Mask (23-		NAA 4 5 0 A 0-	Build physical models of two- and three-
28)	IL	MA.4-5.9.A.2a	dimensional shapes.
			Describe and draw representations of geometric
Donor Dog Mook (22			relationships, patterns, symmetries, and designs
Paper Bag Mask (23-	IL	MA.4-5.9.A.2c	in two- and three-dimensions with and without
28) Paper Bag Mask (23-	IL	IVIA.4-5.9.A.2C	technology. Make predictions and decisions based on data
28)	IL	MA.4-5.10.A.2c	and communicate their reasoning.
20)	IL.	IVIA.4-5. 10.A.2C	Formulate logical arguments about geometric
Wind in Your Socks)			figures and patterns and communicate
(29-35)	IL	MA.4-5.9.C.2	reasoning.
(29-30)	IL .	IVIA.4-3.9.0.2	Organize and display data using pictures, tallies,
Wind in Your Socks)			tables, charts, bar graphs, line graphs, line plots
(29-35)	IL	MA.4-5.10.A.2a	and stem-and-leaf graphs.
Wind in Your Socks)	IL.	IVIA.4-3.10.A.2a	Make predictions and decisions based on data
(29-35)	IL	MA.4-5.10.A.2c	and communicate their reasoning.
(20-00)	IL.	IVIA.4-3. 10.A.20	Collect, organize and display data using tables,
Wind in Your Socks)			charts, bar graphs, line graphs, circle graphs,
(29-35)	IL	MA.4-5.10.B.2b	line plots and stem-and-leaf graphs.
(20-00)	IL.	IVIA.4-3. 10.D.20	Formulate questions of interest and select
Bag Balloons (40-43)	IL	MA.4-5.10.B.2a	methods to systematically collect data.
Day Dailouis (40-43)	IL	IVIA.4-J. IV.D.Zd	mounds to systematically collect data.

			Formulate questions of interest and select
Sled Kite (44-51)	IL	MA.4-5.10.B.2a	methods to systematically collect data.
			Make predictions and decisions based on data
Right Flight (52-59)	IL	MA.4-5.10.A.2c	and communicate their reasoning.
Delta Wing Glider (60-			Make predictions and decisions based on data
68)	IL	MA.4-5.10.A.2c	and communicate their reasoning.